D-Link®
Building Networks for People

DWL-G510

Up to 54 Mbps!

- **Works with 802.11b devices**
- **Great for Video Streaming**
- **Increased Security with 802.1x and WPA**

FOR DESKTOPS

11g 802.11g 54Mbps

2.4 GHz

FREE 24/7 TECH SUPPORT (USA ONLY)†

*Air*Plus® G

802.11g/2.4GHz Wireless
PCI Adapter

D-Link, the industry pioneer in wireless networking, introduces another performance breakthrough in wireless connectivity- the D-Link *Air*Plus® **G** series of high-speed devices.

The D-Link *Air*Plus G DWL-G510 PCI Adapter is a Wireless PCI Adapter featuring the very latest in advanced wireless silicon chip technology to deliver incredibly fast data transfer in the 2.4GHz frequency. The DWL-G510 also works with 802.11b standard wireless devices and when used with other D-Link *Air*Plus G products delivers throughput speeds capable of handling heavy data payloads.

The D-Link *Air*Plus G DWL-G510 also includes a configuration utility to discover available wireless networks and create and save detailed connectivity profiles for those networks most often accessed.

The DWL-G510 is a powerful 32-bit PCI adapter that installs quickly and easily into desktop PCs and when used with other D-Link *Air*Plus G products automatically connects to the network. Like all D-Link wireless adapters, the DWL-G510 can be used in Ad-Hoc mode to connect directly with other 2.4GHz wireless computers for peer-to-peer file sharing or in Infrastructure mode to connect with a wireless access point or router for access to the Internet in your office or home network. The DWL-G510 is an ideal solution enabling wireless networking capabilities on desktops PCs for the home or office.

AirPlus® G

802.11g/2.4GHz Wireless PCI Adapter

DWL-G510

SPECIFICATIONS

Standards
- IEEE 802.11b
- IEEE 802.11g

Interface
32-bit PCI

Data Rates[1]
With Automatic Fallback
- 54Mbps
- 48Mbps
- 36Mbps
- 24Mbps
- 18Mbps
- 12Mbps
- 11Mbps
- 9Mbps
- 6Mbps
- 5.5Mbps
- 2Mbps
- 1Mbps

Security
- 64-, 128-WEP
- 802.1x
- WPA —Wi-Fi Protected Access (64-, 128-WEP with TKIP, MIC, IV Expansion, Shared Key Authentication)

Media Access Control
CSMA/CA with ACK

Frequency Range
2.4GHz to 2.462GHz

Range[1]
- Indoors: Up to 328 feet (100 meters)
- Outdoors: Up to 1,312 feet (400 meters)

Power Consumption
- PowerSave mode = 28mA
- Standby mode = 4.66mA
- Transmit mode = 248mA

Modulation Technology
- Orthogonal Frequency Division Multiplexing (OFDM)
- Complementary Code Keying (CCK)

Receiver Sensitivity
- 54Mbps OFDM, 10% PER,-68dBm)
- 48Mbps OFDM, 10% PER,-68dBm)
- 36Mbps OFDM, 10% PER,-75dBm)
- 24Mbps OFDM, 10% PER,-79dBm)
- 18Mbps OFDM, 10% PER,-82dBm)
- 12Mbps OFDM, 10% PER,-84dBm)
- 11Mbps CCK, 8% PER,-82dBm)
- 9Mbps OFDM, 10% PER,-87dBm)
- 6Mbps OFDM, 10% PER,-88dBm)
- 5.5Mbps CCK, 8% PER,-85dBm)
- 2Mbps QPSK, 8% PER,-86dBm)
- 1Mbps BPSK, 8% PER,-89dBm)

Transmitter Output Power
15dBm ± 2dB

Internal Antenna Type
Dipole with detachable reverse SMA connector

Operating Temperature
32°F to 149°F (0°C to 55°C)

Humidity
95% maximum (non-condensing)

Dimensions
- L = 4.64 (114.3mm)
- W = 2.13 (54mm)
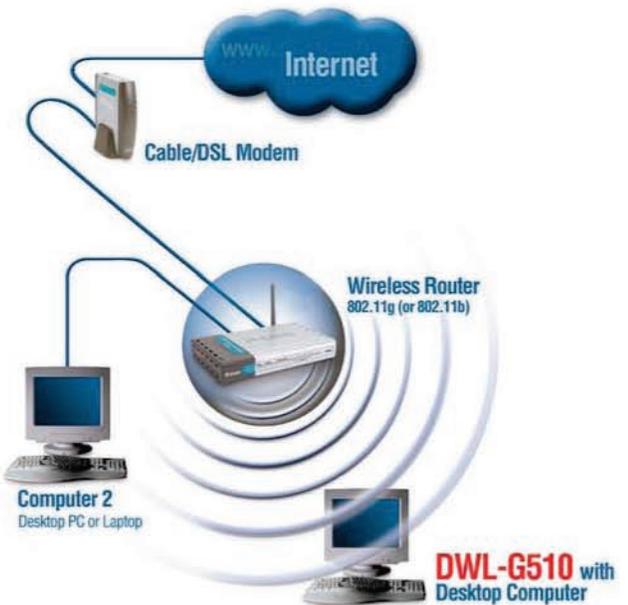- H = 0.34 inches (8.7mm)

Weight
0.12 lb (55g)

Certifications
- FCC part 15b

Warranty
3 Year

[1] Maximum wireless signal rate based on IEEE Standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead lower actual data throughput rate.
[2] Environmental factors may adversely affect wireless signal range.

Technology

D-Link AirPlus™G Products

Standard 802.11b

1X — Up to 5X

Performance

Internet

Cable/DSL Modem

Wireless Router
802.11g (or 802.11b)

Computer 2
Desktop PC or Laptop

DWL-G510 with Desktop Computer

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